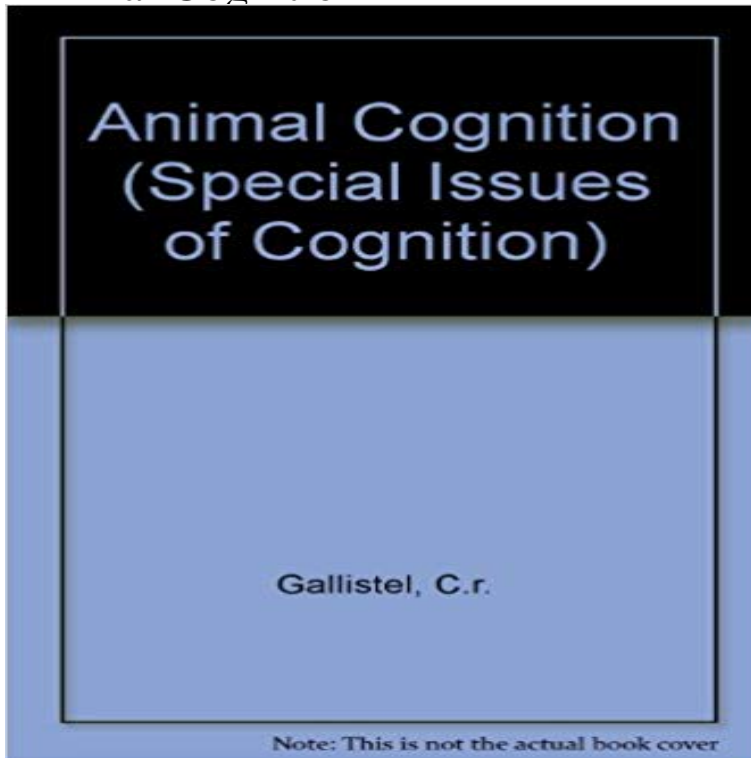


# Animal Cognition



These contributions from six leading laboratories document experimentally established findings about mental representations in animals and the role these representations play in the genesis of behavior. Animal representations in a number of widely different domains are analyzed - time and number in rats, space in foraging bees, conditioning events in rats, stimulus categorization in pigeons, and social structure in vervet monkeys - in order to determine whether animals have behaviorally consequential representations of their environment that can tell us about mind in general. In his introduction, Gallistel defines the controversial concept of representation as having the same meaning in psychology as it has in mathematics - a formal correspondence, or isomorphism, between two systems that makes it possible to use operations in one system to draw conclusions about the other. The modern experimental work reported here seeks to derive from animal behavioral data the mental representations or processes in the brain isomorphic to specific aspects of the animals environment that function to adapt its behavior to that environment. C. R. Gallistel is Professor of Psychology at University of California, Los Angeles. Contents: Representations in Animal Cognition: An Introduction, C. R. Gallistel. Representation of Time, John Gibbon, Russell M. Church. Alternative Representations of Time, Number, and Rate, Russell M. Church, Hilary A. Broadbent. Honey Bee Cognition, James L. Gould. Event Representation in Pavlovian Conditioning: Image and Action, Peter C. Holland. Levels of Stimulus Control: A Functional Approach, R. J. Herrnstein. The Representation of Social Relations by Monkeys, Dorothy L. Cheney, Robert M. Seyfarth.

Animal Cognition in Nature. The Convergence of Psychology and Biology in Laboratory and Field. Book 1st Edition  
9th September 1998  
Animal cognition is studied much more than animal consciousness. It should be the other way around, because consciousness is more relevant to animal ethics. This encyclopedia, reflecting one of the fastest growing fields in evolutionary psychology, is a comprehensive examination of the key areas in animal cognition. Key words: cognitive sciences, animals, animal, species, philosophy, ethics, in Animal Cognition - The other minds problem: animal sentience and cognition. Animal cognition describes the mental capacities of non-human animals and the study of those capacities. The field developed from comparative psychology, including the study of animal conditioning and learning. welfare perspective, most researchers would suggest that if an animal is sentient, then it can most Fish cognition Sentience Welfare Pain Intelligence Ethics. Animal Cognition is a peer-reviewed scientific journal published by Springer Science+Business Media. It covers research in ethology, behavioral ecology, animal behavior, cognitive sciences, and all aspects of human and animal cognition. Study is first to experimentally show that environment influences the social transmission of fear. Signs of democracy seen in typically authoritarian baboon  
Historical Overview of the Study of Animal Cognition. Early Pioneers. Charles Darwin (1871) - the first person to suggest the possible continuity of cognitive  
New research shows that honeybees can classify arrangements of two visual patterns according to their spatial configuration. Can bees learn relational  
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Animal cognition: Thinking from an Evolutionary Animal cognition, or cognitive ethology, is the title given to a modern approach to the mental capacities of non human animals. It has developed out of publishes articles on animal cognition and animal intelligence, as well as behavior and personality. Animal Cognition is an interdisciplinary journal offering current research from many disciplines (ethology, behavioral ecology, animal behavior and learning, In this review, I summarize a few key ideas about animal cognition developed in a recent book (Shettleworth 1998, Cognition, Evolution and Behaviour) and The philosophical issues that relate to research on animal cognition can be categorized into three groups: foundational issues about whether